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TECH CENTER 1600/2900

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RAW SEQUENCE LISTING   DATE: 11/15/2002
PATENT APPLICATION: US/09/485,071   TIME: 09:32:56

Input Set : A:\SEQLIST.txt
Output Set: N:\CRF4\11152002\I485071.raw

SEQUENCE LISTING
C--> 5 (1) GENERAL INFORMATION:
     7   (i) APPLICANT: Reich, Norbert O.
     8   Flynn, James
C--> 10   (ii) TITLE OF INVENTION: MODULATORS OF DNA CYTOSINE-5
     11   METHYLTRANSFERASE AND METHODS FOR USE THEREOF
     13   (iii) NUMBER OF SEQUENCES: 110
     15   (iv) CORRESPONDENCE ADDRESS:
     16   (A) ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
     17   (B) STREET: 11150 Santa Monica Boulevard, Suite 400
     18   (C) CITY: Los Angeles
     19   (D) STATE: CA
     20   (E) COUNTRY: USA
     21   (F) ZIP: 90025
     23   (v) COMPUTER READABLE FORM:
     24   (A) MEDIUM TYPE: Diskette
     25   (B) COMPUTER: IBM Compatible
     26   (C) OPERATING SYSTEM: DOS
     27   (D) SOFTWARE: FastSEQ for Windows Version 2.0
     29   (vi) CURRENT APPLICATION DATA:
C--> 30   (A) APPLICATION NUMBER: US/09/485,071
C--> 31   (B) FILING DATE: 12-Jun-1998
     32   (C) CLASSIFICATION:
     34   (vii) PRIOR APPLICATION DATA:
     35   (A) APPLICATION NUMBER: 60/057,411
     36   (B) FILING DATE: 29-AUG-1997
     38 (viii) ATTORNEY/AGENT INFORMATION:
     39   (A) NAME: Canady, Karen S
     40   (B) REGISTRATION NUMBER: 39,927
     41   (C) REFERENCE/DOCKET NUMBER: 30794.30WO01
     43   (ix) TELECOMMUNICATION INFORMATION:
     44   (A) TELEPHONE: 310 445-1140
     45   (B) TELEFAX: 310 445-9031
     46   (C) TELEX:
     48 (2) INFORMATION FOR SEQ ID NO: 1:
     50   (i) SEQUENCE CHARACTERISTICS:
     51   (A) LENGTH: 26 base pairs
     52   (B) TYPE: nucleic acid
     53   (C) STRANDEDNESS: double
     54   (D) TOPOLOGY: linear
     56   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     58 GGGGGGGRRK KGCGKGGKGK KGKKGG   26
     60 (2) INFORMATION FOR SEQ ID NO: 2:

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```
62        (i) SEQUENCE CHARACTERISTICS:
63              (A) LENGTH: 26 base pairs
64              (B) TYPE: nucleic acid
65              (C) STRANDEDNESS: double
66              (D) TOPOLOGY: linear
69       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
71  KGGRKKRDDD KRCGKRRDKK KKKKG                                        26
73 (2) INFORMATION FOR SEQ ID NO: 3:
75        (i) SEQUENCE CHARACTERISTICS:
76              (A) LENGTH: 10 base pairs
77              (B) TYPE: nucleic acid
78              (C) STRANDEDNESS: double
79              (D) TOPOLOGY: linear
82       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
84  GGGGCGGGGC                                                         10
86 (2) INFORMATION FOR SEQ ID NO: 4:
88        (i) SEQUENCE CHARACTERISTICS:
89              (A) LENGTH: 10 base pairs
90              (B) TYPE: nucleic acid
91              (C) STRANDEDNESS: double
92              (D) TOPOLOGY: linear
95       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
97  CCAACGTTGG                                                         10
99 (2) INFORMATION FOR SEQ ID NO: 5:
101       (i) SEQUENCE CHARACTERISTICS:
102             (A) LENGTH: 10 base pairs
103             (B) TYPE: nucleic acid
104             (C) STRANDEDNESS: double
105             (D) TOPOLOGY: linear
108      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
110 CCAAGATTGG                                                         10
112 (2) INFORMATION FOR SEQ ID NO: 6:
114       (i) SEQUENCE CHARACTERISTICS:
115             (A) LENGTH: 10 base pairs
116             (B) TYPE: nucleic acid
117             (C) STRANDEDNESS: double
118             (D) TOPOLOGY: linear
121      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
123 CGATCGATCG                                                         10
125 (2) INFORMATION FOR SEQ ID NO: 7:
127       (i) SEQUENCE CHARACTERISTICS:
128             (A) LENGTH: 10 base pairs
129             (B) TYPE: nucleic acid
130             (C) STRANDEDNESS: double
131             (D) TOPOLOGY: linear
134      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
136 CCAACGTTGG                                                         10
138 (2) INFORMATION FOR SEQ ID NO: 8:
140       (i) SEQUENCE CHARACTERISTICS:
```

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```
141          (A) LENGTH: 12 base pairs
142          (B) TYPE: nucleic acid
143          (C) STRANDEDNESS: double
144          (D) TOPOLOGY: linear
147     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
149  CCGTACGTAC GG                                              12
151 (2) INFORMATION FOR SEQ ID NO: 9:
153     (i) SEQUENCE CHARACTERISTICS:
154          (A) LENGTH: 30 base pairs
155          (B) TYPE: nucleic acid
156          (C) STRANDEDNESS: double
157          (D) TOPOLOGY: linear
160     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
162  GGGAATTCAA GGGGCGGGGC AAGGATCCAG                           30
164 (2) INFORMATION FOR SEQ ID NO: 10:
166     (i) SEQUENCE CHARACTERISTICS:
167          (A) LENGTH: 30 base pairs
168          (B) TYPE: nucleic acid
169          (C) STRANDEDNESS: double
170          (D) TOPOLOGY: linear
173     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
175  CTGGATCCTT GCCCCGCCCC TTGAATTCCC                           30
177 (2) INFORMATION FOR SEQ ID NO: 11:
179     (i) SEQUENCE CHARACTERISTICS:
180          (A) LENGTH: 30 base pairs
181          (B) TYPE: nucleic acid
182          (C) STRANDEDNESS: double
183          (D) TOPOLOGY: linear
186     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
188  GGGAATTCAA ATGACGTCAA AAGGATCCAG                           30
190 (2) INFORMATION FOR SEQ ID NO: 12:
192     (i) SEQUENCE CHARACTERISTICS:
193          (A) LENGTH: 30 base pairs
194          (B) TYPE: nucleic acid
195          (C) STRANDEDNESS: double
196          (D) TOPOLOGY: linear
199     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
201  CTGGATCCTT TTGACGTCAT TTGAATTCCC                           30
203 (2) INFORMATION FOR SEQ ID NO: 13:
205     (i) SEQUENCE CHARACTERISTICS:
206          (A) LENGTH: 50 base pairs
207          (B) TYPE: nucleic acid
208          (C) STRANDEDNESS: double
209          (D) TOPOLOGY: linear
212     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
214  CCTACCCACC CTGGATCCTT GCCCCGCCCC TTGAATTCCC AACCCTCCAC     50
216 (2) INFORMATION FOR SEQ ID NO: 14:
218     (i) SEQUENCE CHARACTERISTICS:
219          (A) LENGTH: 22 base pairs
```

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```
220          (B) TYPE: nucleic acid
221          (C) STRANDEDNESS: double
222          (D) TOPOLOGY: linear
225     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
227   ATCCTTGCCC CGCCCCTTGA AT                                          22
229 (2) INFORMATION FOR SEQ ID NO: 15:
231     (i) SEQUENCE CHARACTERISTICS:
232          (A) LENGTH: 14 base pairs
233          (B) TYPE: nucleic acid
234          (C) STRANDEDNESS: double
235          (D) TOPOLOGY: linear
238     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
240   TTGCCCCGCC CCTT                                                   14
242 (2) INFORMATION FOR SEQ ID NO: 16:
244     (i) SEQUENCE CHARACTERISTICS:
245          (A) LENGTH: 66 base pairs
246          (B) TYPE: nucleic acid
247          (C) STRANDEDNESS: double
248          (D) TOPOLOGY: linear
251     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
253   GGGAATTCAT GGATCCTAAA NNNNNNNNNN NNCGNNNNNN NNNNNNTTTC AAGCTTGTGA    60
254   ATTCCC                                                           66
256 (2) INFORMATION FOR SEQ ID NO: 17:
258     (i) SEQUENCE CHARACTERISTICS:
259          (A) LENGTH: 66 base pairs
260          (B) TYPE: nucleic acid
261          (C) STRANDEDNESS: double
262          (D) TOPOLOGY: linear
265     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
267   CCCTTAAGTA CCTAGGATTT NNNNNNNNNN NNGCNNNNNN NNNNNNAAAG TTCGAACACT    60
268   TAAGGG                                                           66
270 (2) INFORMATION FOR SEQ ID NO: 18:
272     (i) SEQUENCE CHARACTERISTICS:
273          (A) LENGTH: 26 base pairs
274          (B) TYPE: nucleic acid
275          (C) STRANDEDNESS: double
276          (D) TOPOLOGY: linear
279     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
281   GTGGGATGGG AACGAGTTGA GGAGGG                                      26
283 (2) INFORMATION FOR SEQ ID NO: 19:
285     (i) SEQUENCE CHARACTERISTICS:
286          (A) LENGTH: 26 base pairs
287          (B) TYPE: nucleic acid
288          (C) STRANDEDNESS: double
289          (D) TOPOLOGY: linear
292     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
294   AGTGGTATGT ATCGATTATA GTTGGG                                      26
296 (2) INFORMATION FOR SEQ ID NO: 20:
298     (i) SEQUENCE CHARACTERISTICS:
```

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PATENT APPLICATION: US/09/485,071   TIME: '09:32:56

Input Set : A:\SEQLIST.txt
Output Set: N:\CRF4\11152002\I485071.raw

```
299            (A) LENGTH: 26 base pairs
300            (B) TYPE: nucleic acid
301            (C) STRANDEDNESS: double
302            (D) TOPOLOGY: linear
305       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
307  GGAGGAAGTT TACGTATGGT ATGGGG                                   26
309 (2) INFORMATION FOR SEQ ID NO: 21:
311       (i) SEQUENCE CHARACTERISTICS:
312            (A) LENGTH: 26 base pairs
313            (B) TYPE: nucleic acid
314            (C) STRANDEDNESS: double
315            (D) TOPOLOGY: linear
318       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
320  TGGGAGGGGA TTCGAGGTGA GAGTTG                                   26
322 (2) INFORMATION FOR SEQ ID NO: 22:
324       (i) SEQUENCE CHARACTERISTICS:
325            (A) LENGTH: 26 base pairs
326            (B) TYPE: nucleic acid
327            (C) STRANDEDNESS: double
328            (D) TOPOLOGY: linear
331       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
333  ATAAAGTATT AGCGTAAGAG ATGAAG                                   26
335 (2) INFORMATION FOR SEQ ID NO: 23:
337       (i) SEQUENCE CHARACTERISTICS:
338            (A) LENGTH: 26 base pairs
339            (B) TYPE: nucleic acid
340            (C) STRANDEDNESS: double
341            (D) TOPOLOGY: linear
344       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:
346  TGGAGGAGTT TACGGTGTAA TTGTTT                                   26
348 (2) INFORMATION FOR SEQ ID NO: 24:
350       (i) SEQUENCE CHARACTERISTICS:
351            (A) LENGTH: 26 base pairs
352            (B) TYPE: nucleic acid
353            (C) STRANDEDNESS: double
354            (D) TOPOLOGY: linear
357       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:
359  GGAGTAGGTA GACGTTAAGT ATGATG                                   26
361 (2) INFORMATION FOR SEQ ID NO: 25:
363       (i) SEQUENCE CHARACTERISTICS:
364            (A) LENGTH: 26 base pairs
365            (B) TYPE: nucleic acid
366            (C) STRANDEDNESS: double
367            (D) TOPOLOGY: linear
370       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:
372  GTGGGAAGGG GACGAATTTG AAGGTG                                   26
374 (2) INFORMATION FOR SEQ ID NO: 26:
376       (i) SEQUENCE CHARACTERISTICS:
377            (A) LENGTH: 26 base pairs
```

VERIFICATION SUMMARY   DATE: 11/15/2002
PATENT APPLICATION: **US/09/485,071**   TIME: 09:32:57

Input Set : **A:\SEQLIST.txt**
Output Set: **N:\CRF4\11152002\I485071.raw**

L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:10 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:1481 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:110